1

0104 INFORMATION **INFORMATION EMBEDMENT ADDITIONAL** LNO **DETERMINATION EMBEDMENT POSITION** 0103 LNO PRINTER OUTPUT RESOLUTION **DETERMINATION** PATTERN ARRANGEMENT 0110 LIND IMAGE RESOLUTION REGISTRATION SIGNAL EMBEDMENT UNIT 0102 EXTRACTION COMPONENT COLOR 0101 LIND

1

COMPONENT **SYNTHESIS** 0105 COLOR LIND COMPRESSION **ENCODING** 0106 JPEG LINO ← MEMORY 0107 DECOMPRESSION PECOMPRESSION PE 0108 WI **PRINTER** 0109 → Iwd

1

**FIG.2** 

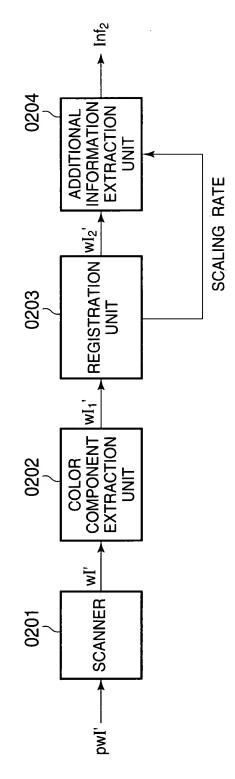


FIG.3

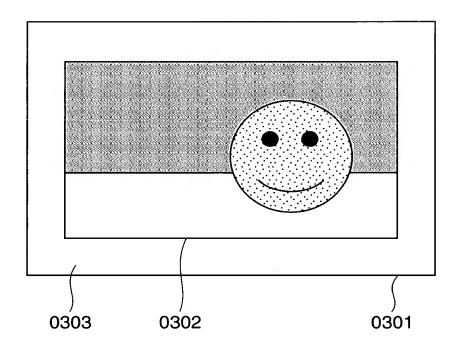


FIG.4

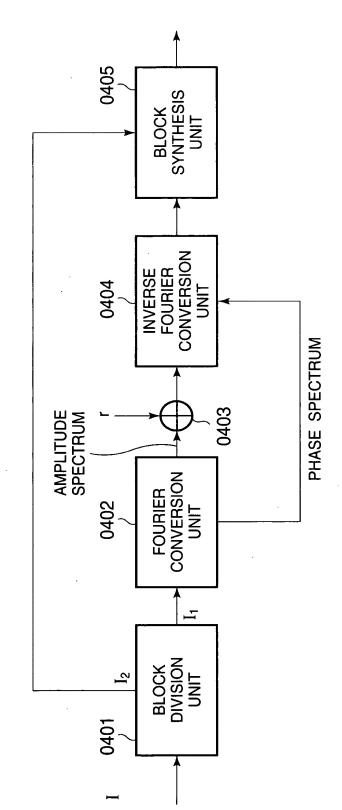


FIG.5

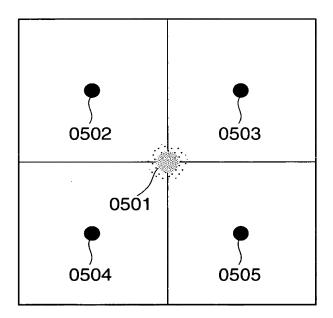
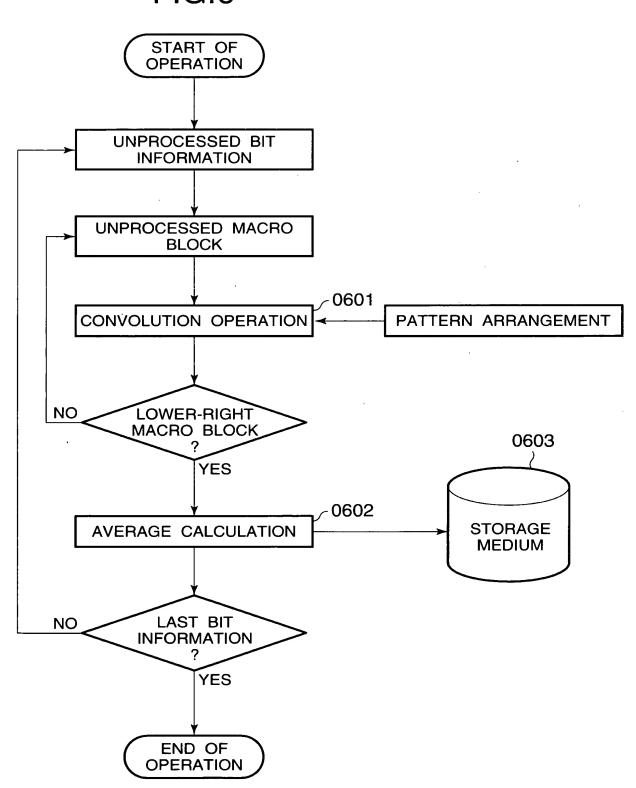
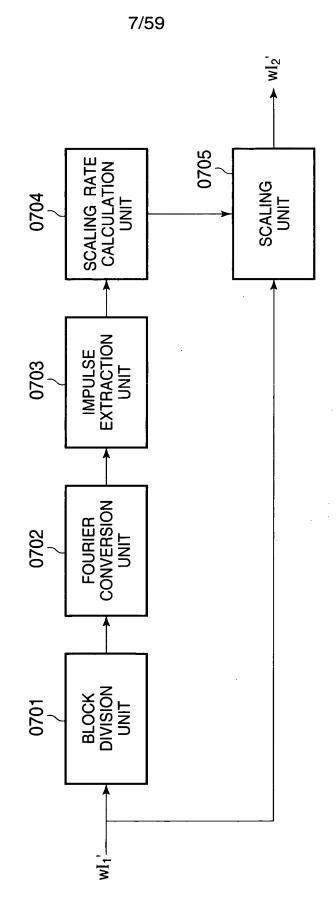


FIG.6



**FIG.7** 



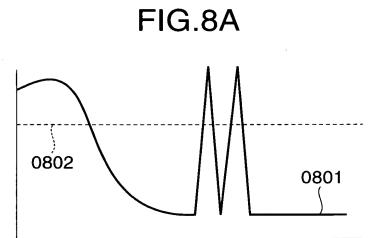


FIG.8B

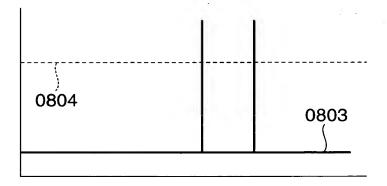


FIG.9

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0	0	0	0	-с	-с	-с	-с	
0	0	0	0	-с	-с	-с	-с	

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**FIG.10** 

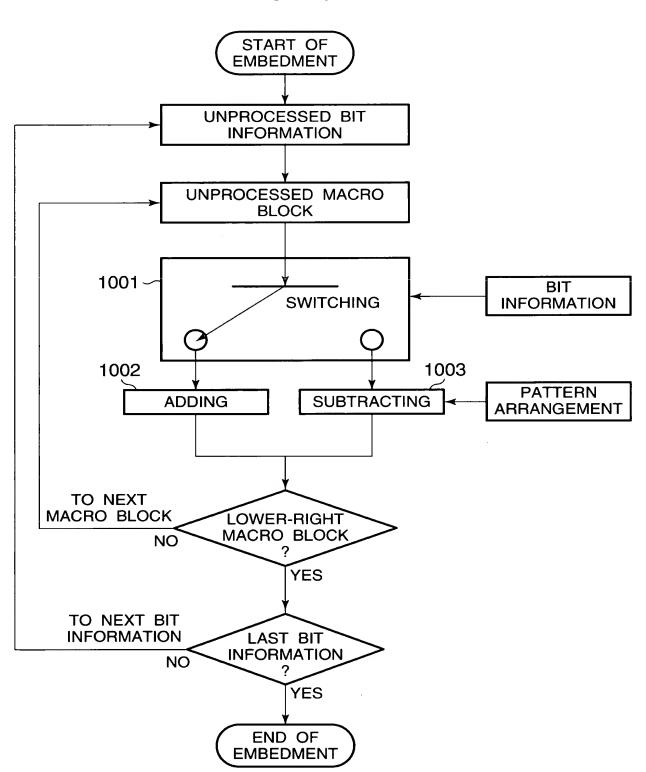


FIG.11

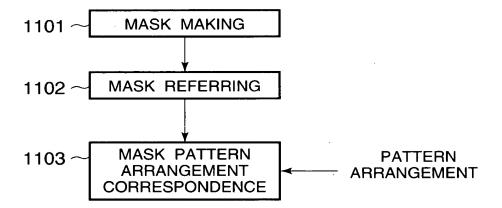
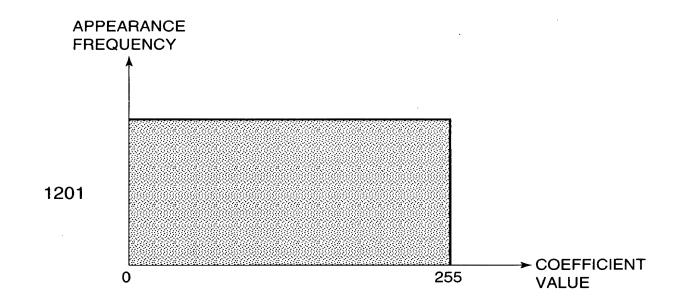
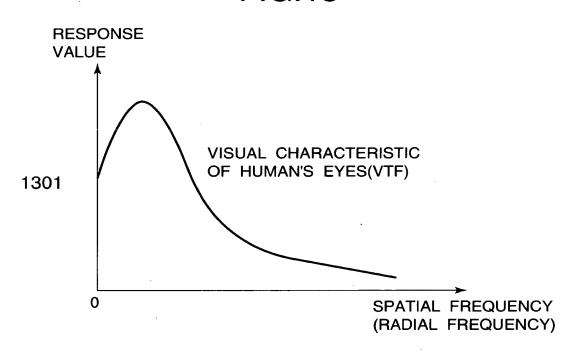


FIG.12



**FIG.13** 



**FIG.14** 

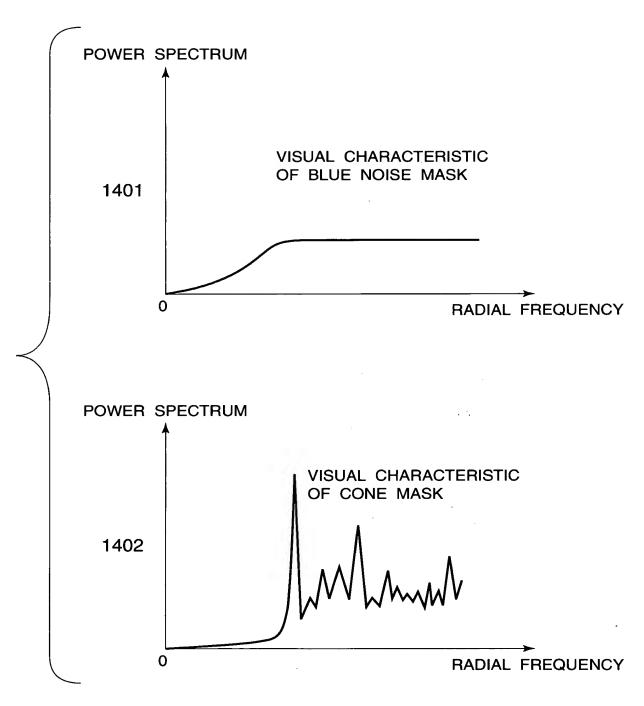


FIG.15

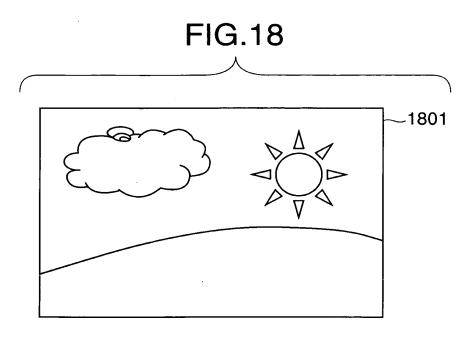
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7	9	10	4	
12	2	1	15	

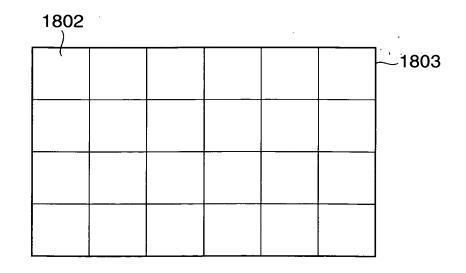
FIG.16

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7	9	10	4
12	2	1	15

FIG.17

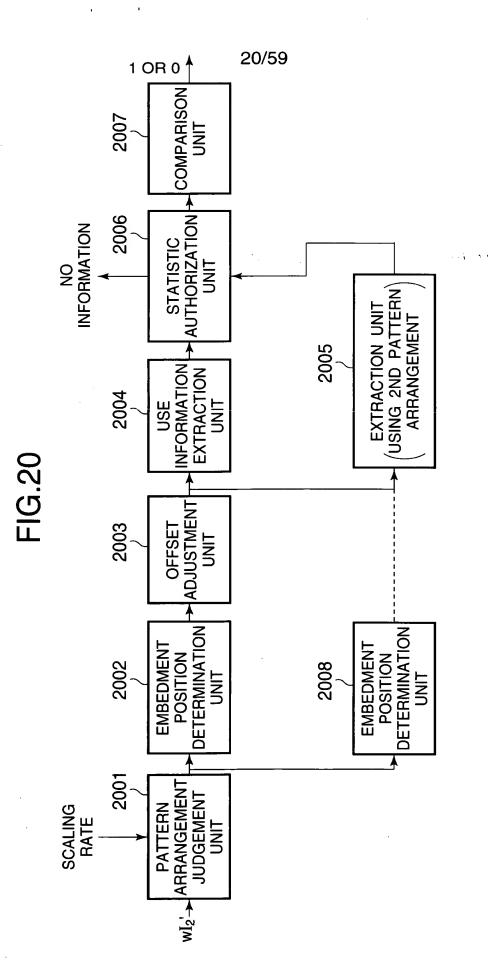
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# FIG. 19

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a67 —c	a66 -c	a65 -c	a64 c	<b>a</b> 63	<b>a</b> 62	<b>a</b> 61	<b>a</b> 60		ပ	၁_	ပ	ပ	0	0	0	0		<b>a</b> 67	<b>a</b> 66	a65	<b>a</b> 64	<b>a</b> 63	<b>a</b> 62	a61	<b>a</b> 60	
a57 —c	a56 —c	a55 —c	a54 —c	<b>a</b> 53	<b>a</b> 52	<b>a</b> 51	<b>a</b> 50		ပ	၁	၁ –	ပ	0	0	0	0		<b>a</b> 57	<b>a</b> 56	<b>a</b> 55	<b>a</b> 54	<b>a</b> 53	<b>a</b> 52	<b>a</b> 51	<b>a</b> 50	
a47 —c	a46 —C	a45 —C	a44 —C	<b>a</b> 43	<b>a</b> 42	<b>a</b> 41	<b>a</b> 40	<b>k</b>	<b>D</b> –	о <u>—</u>	ე—	ე_	0	0	0	0	-	a47	<b>a</b> 46	<b>a</b> 45	<b>a</b> 44	<b>a</b> 43	<b>a</b> 42	a41	<b>a</b> 40	
 <b>a</b> 37	<b>a</b> 36	<b>a</b> 35	<b>a</b> 34	<b>a</b> 33 +c	a32 +c	<b>а</b> зт +с	a30 +c	4	0	0	0	0	<b>)</b> +c	) <del>+</del>	) <del>+</del>	) <del>+</del>	+	<b>a</b> 37	<b>a</b> 36	a35	<b>a</b> 34	<b>a</b> 33	<b>a</b> 32	<b>a</b> 31	<b>a</b> 30	
 <b>a</b> 27	<b>a</b> 26	<b>a</b> 25	<b>a</b> 24	<b>a</b> 23 +c	a22 +c	a21 +c	<b>a</b> 20 +c		0	0	0	0	<b>)</b> +c	<b>+</b> c	<b>)</b> +	+ +		<b>a</b> 27	<b>a</b> 26	a25	a24	a23	<b>a</b> 22	a21	<b>a</b> 20	
a17	<b>a</b> 16	<b>a</b> 15	a14	a13 +c	a12 +c	a11 +c	a10 +c		0	0	0	0	+c	၁ <del>+</del>	) +	၁ +		a17	<b>a</b> 16	<b>a</b> 15	<b>a</b> 14	<b>a</b> 13	<b>a</b> 12	<b>a</b> 11	<b>a</b> 10	
a07	<b>a</b> 06	<b>a</b> 05	<b>a</b> 04	a03 +c	a02 +c	a01 +c	300 +c		0	0	0	0	) +C	) <del>+</del> C	+c	<b>0</b> +		<b>a</b> 07	<b>a</b> 06	a05	a04	<b>a</b> 03	a02	a01	<b>a</b> 00	



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<b>a</b> 07	a17	<b>a</b> 27	a37	a47 —c	a57 —c	a67 —c	a77 c	
<b>a</b> 06	<b>a</b> 16	<b>a</b> 26	<b>a</b> 36	a46 —c	a56 —c	a66 —c	a76 —c	
<b>a</b> 05	<b>a</b> 15	<b>a</b> 25	<b>a</b> 35	a45 a	a55 6	a65 6	a75 —c	
<b>a</b> 04	<b>a</b> 14	a24 a25	a34 a35				a74 a75 —c —c	(1.5)
		a24 a25	a34 a35	a45 —c	a55 —c	a65 —c	a75 —c	T"(2, 2,1)
<b>a</b> 04	a12 a13 a14 +c +c	a22 a23 a24 a25	a32 a33 a34 a35 +c +c	a44 a45 -c -c	a54 a55 cc	a64 a65 —c —c	a74 a75 —c —c	(1, 2),11
a01 a02 a03 +c +c +c a04	a11 a12 a13 a14 +c +c +c a14	a23 a24 a25	a31 a32 a33 a34 a35   +c +c +c a34 a35	a <sub>43</sub> a <sub>44</sub> a <sub>45</sub> -c	a53 a54 a55 —c	a <sub>63</sub> a <sub>64</sub> a <sub>65</sub> -c	a73 a74 a75 —c	(2.27),11

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SONVOLUTION

<b>a</b> 07	<b>a</b> 17	<b>a</b> 27	<b>a</b> 37	<b>a</b> 47	<b>a</b> 57	<b>a</b> 67	a77
<b>a</b> 06	<b>a</b> 16	<b>a</b> 26	<b>a</b> 36	<b>a</b> 46	<b>a</b> 56	<b>a</b> 66	a76
<b>a</b> 05	<b>a</b> 15	<b>a</b> 25	<b>a</b> 35	<b>a</b> 45	<b>a</b> 55	<b>a</b> 65	<b>a</b> 75
<b>a</b> 04	a14	<b>a</b> 24	<b>a</b> 34	a44	<b>a</b> 54	a64	a74
<b>a</b> 03	a13	<b>a</b> 23	<b>a</b> 33	<b>a</b> 43	<b>a</b> 53	<b>a</b> 63	<b>a</b> 73
<b>a</b> 02	a12.	<b>a</b> 22	<b>a</b> 32	<b>a</b> 42	<b>a</b> 52	a62	<b>a</b> 72
<b>a</b> 01	a11	<b>a</b> 21	a31	a41	<b>a</b> 51	a61	a71
<b>a</b> 00	<b>a</b> 10	<b>a</b> 20	<b>a</b> 30	<b>a</b> 40	<b>a</b> 50	<b>a</b> 60	<b>a</b> 70

["(X,Y)

FIG.23

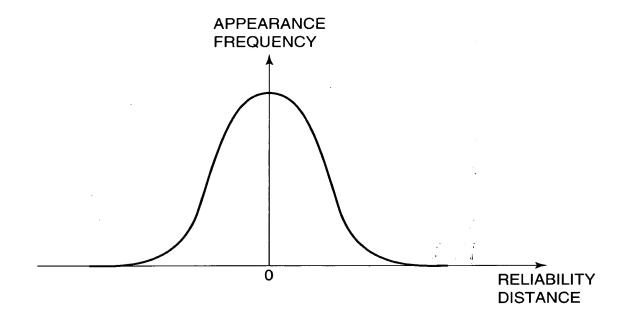
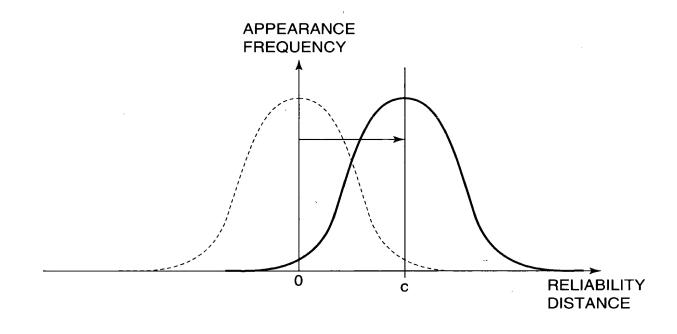
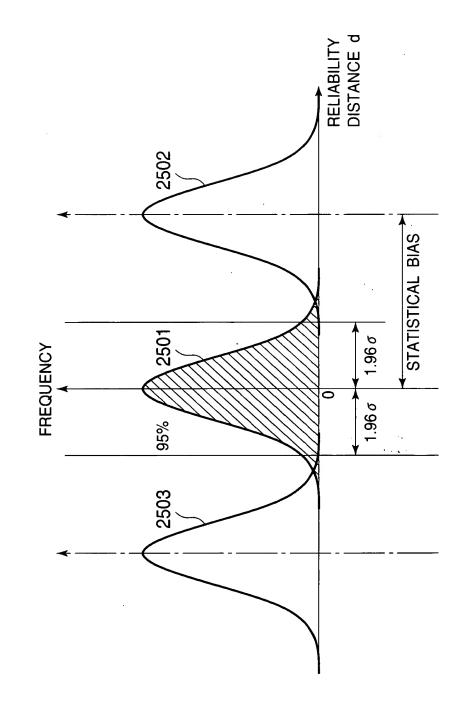


FIG.24



25/59



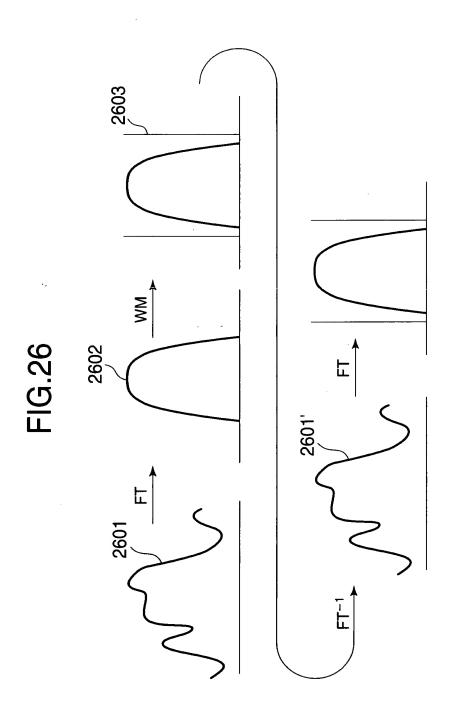


FIG.27C 2704 2705 FIG.27B 2702 2701 FIG.27A

**FIG.28** 

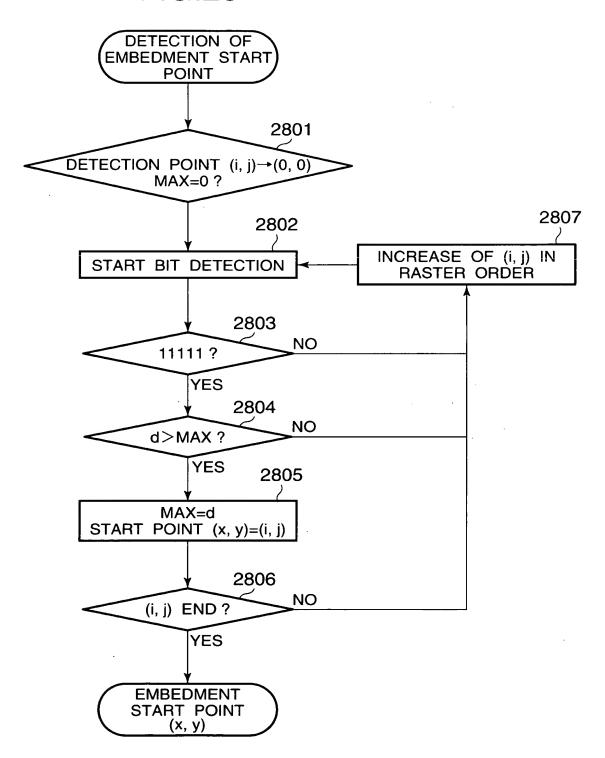


FIG.29

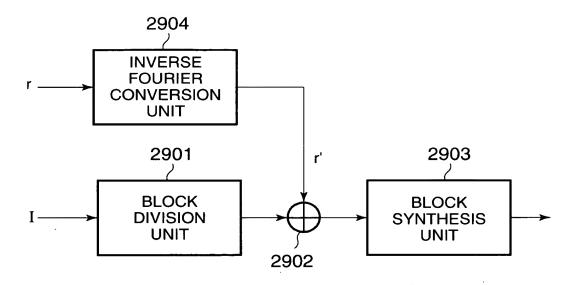
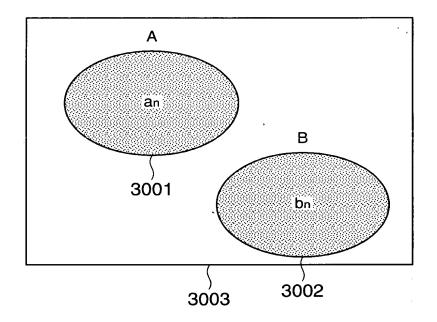
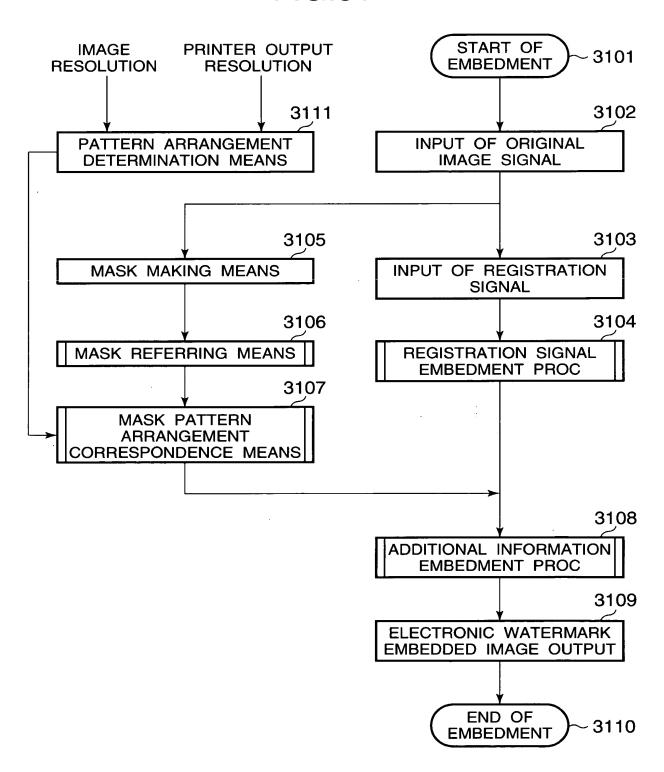


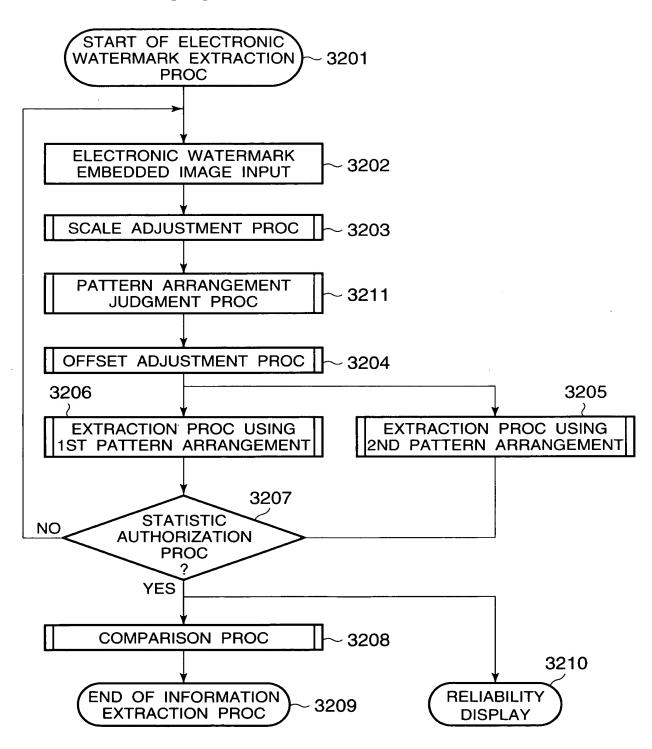
FIG.30



**FIG.31** 



**FIG.32** 



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			) +	<b>0</b> +	<b>)</b> +	+c	0	0	0	0
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FIG.34					(				
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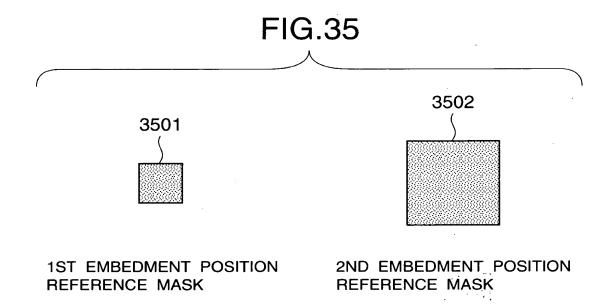
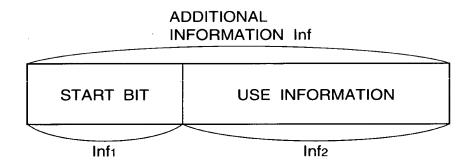


FIG.36



**FIG.37** 

69	211	9	217	16	35	190	101
87	197	109	180	117	212	71	114
166	28	55	143	104	146	85	130
64	206	179	48	240	232	108	154
67	40	91	224	37	32	223	194
203	214	106	231	169	4.	208	24
47	195	27	61	2	155	81	213
251	84	202	184	170	10	46	138

COEFFICIENT ARRANGEMENT OF BLUE NOISE MASK (PART)

### **FIG.38**

73	244	124	207	70	254	117	196
38	177	11	132	43	186	4	138
104	221	93	231	100	211	85	237
23	151	55	165	26	153	56	172
67	250	113	193	79	240	123	203
47	188	1	142	33	183	14	128
96	215	83	232	111	218	91	227
28	157	60	171	17	147	51	160

COEFFICIENT ARRANGEMENT OF CONE MASK (PART)

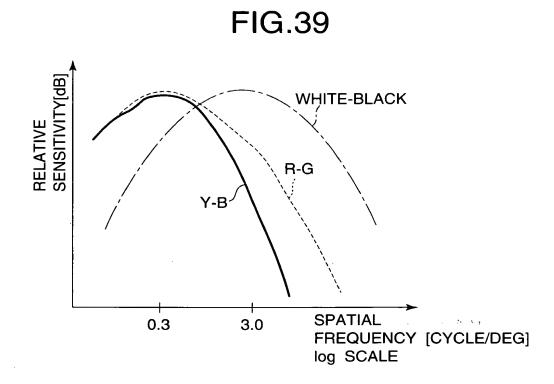
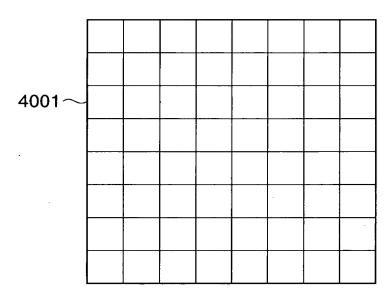
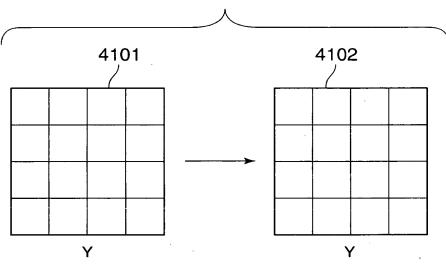


FIG.40

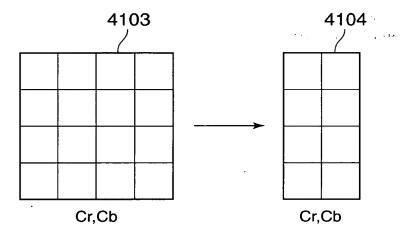


MINIMUM ENCODING UNIT (MCU)

FIG.41

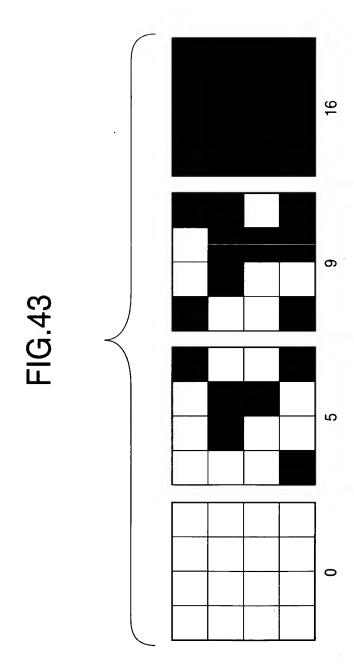


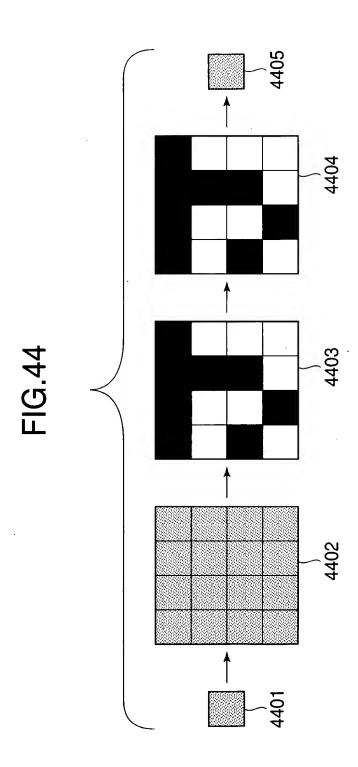
#### SAMPLING

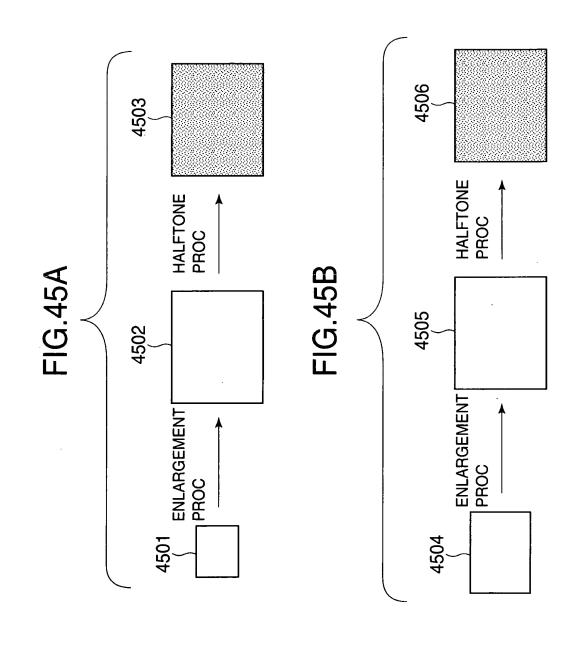


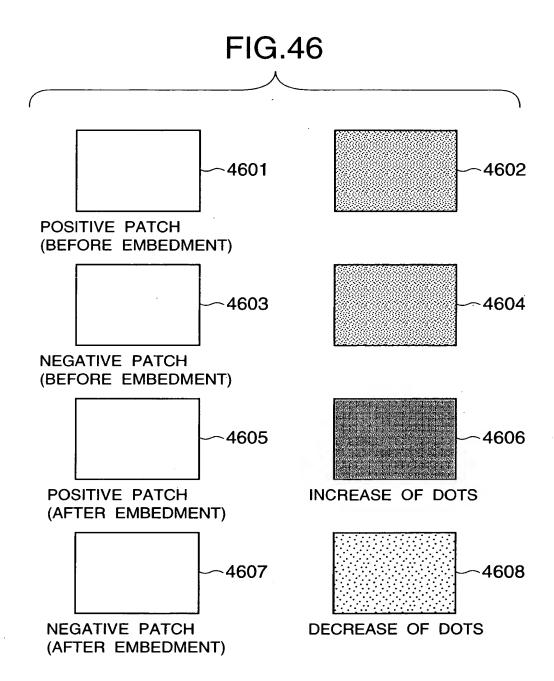
# FIG.42

4201~	+c	+c	+c	+c	0	0	0	0	
	+c	+c	+c	+c	0	0	0	0	
	+c	+c	+c	+c	0	0	0	0	
	+c	+c	+c	+c	0	0	0	0	
	0	0	0	0	-с	-с	-с	-с	~4202
	0	0	0	0	-с	-с	-с	-с	
:	0	0	0	0	-с	-с	-с	-с	
	0	0	0	0	-с	-с	-с	-с	

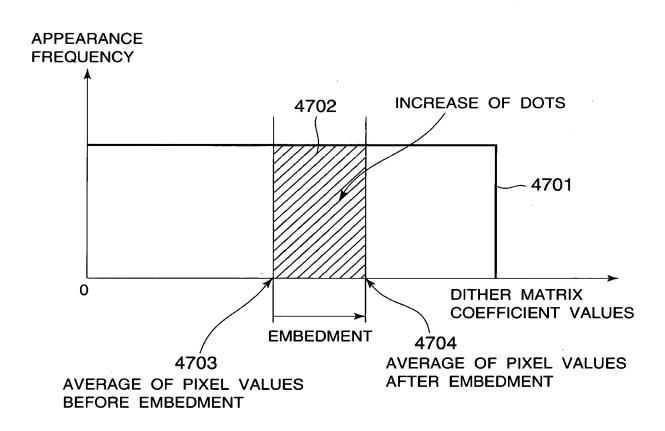


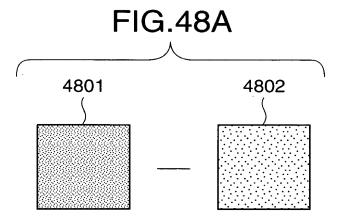


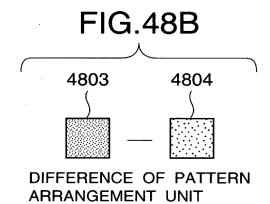




**FIG.47** 



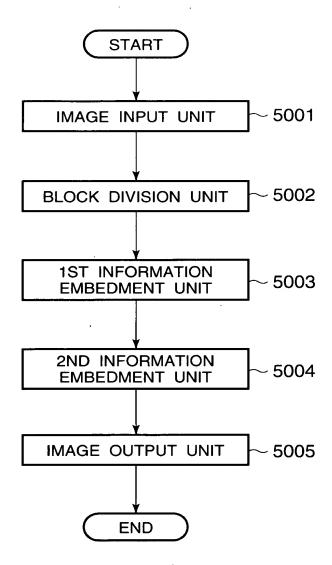




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4902	-	0 0 0 + 0 + 0 + 0 + 0 0	0 0 0 +c+c+c+c	0 0 0 +c +c +c +c	0 0 0 +c +c +c +c	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	-c - c - c - c - c 0 0 0 0 4904	0 0 0 0 0 0 0 0 0	$egin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	-c $-c$ $-c$ $-c$ $-c$ $-c$ 0 0 0 0 0 0 0	-c $-c$ $-c$ $-c$ $-c$ $-c$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-c $-c$ $-c$ $-c$ $-c$ $-c$ $0$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
4901		+c+c+c+c 0 0 0 0 0 0 0	+c+c+c+c 0 0 0 0 0 0 +c+c+c+c+c	+c+c+c+c 0 0 0 0 0 0	+c+c+c+c 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 -c -c -c -c 4903	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-c -c -c -c -c 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-c $-c$ $-c$ $-c$ $-c$ $-c$ $0$ $0$ $0$ $0$ $0$	-c $-c$ $-c$ $-c$ $-c$ $-c$ $0$ $0$ $0$ $0$ $0$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0  0  0  0  0  0  -c	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0 0 0 0

FIG.50

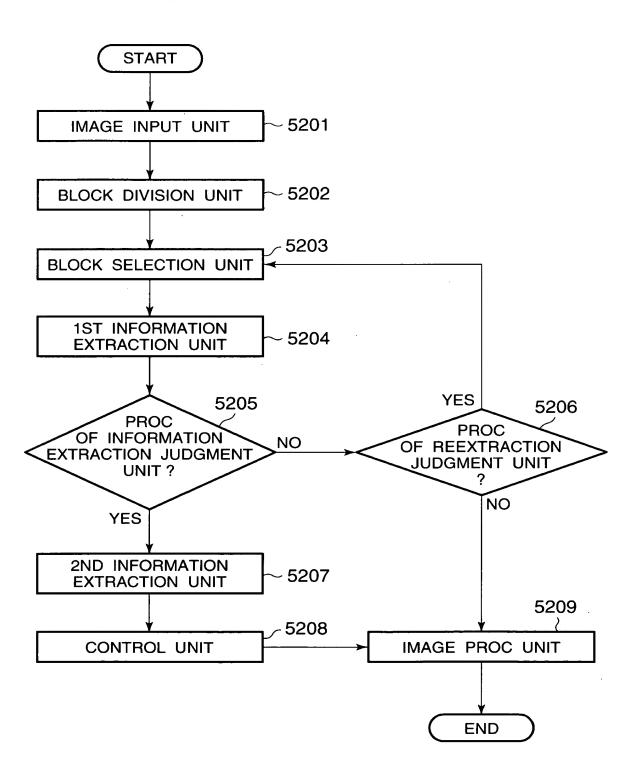


## FIG.51

ISSUE COUNTRY INFORMATION (8 BITS)

AMOUNT INFORMATION (8 BITS)

**FIG.52** 



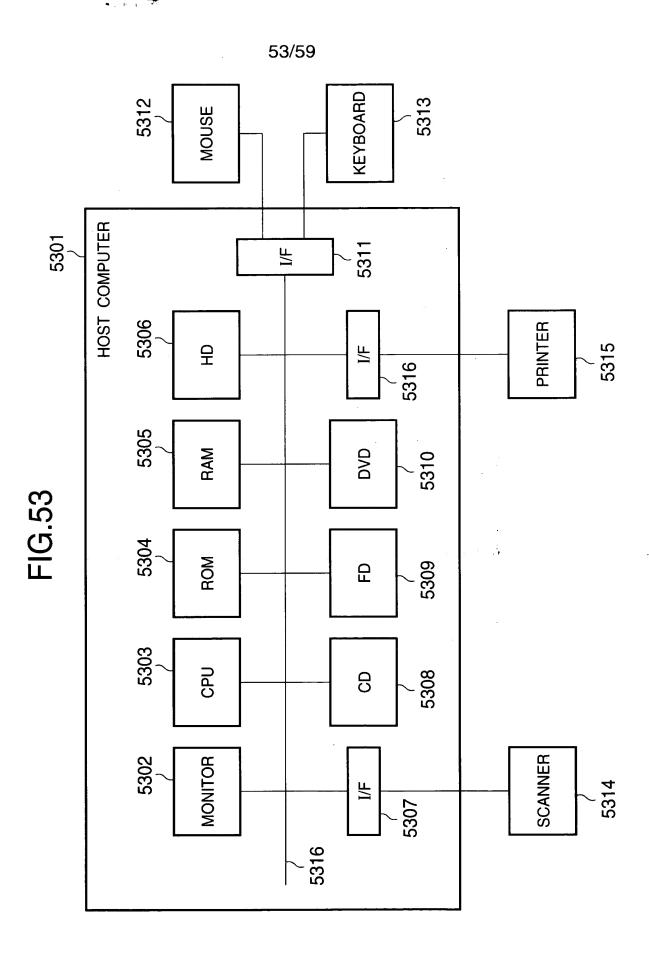
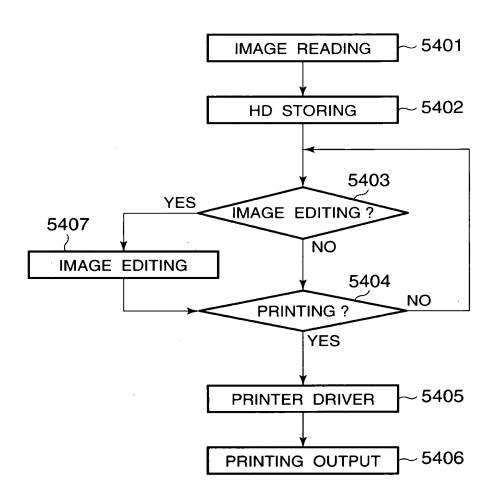


FIG.54



**FIG.55** 

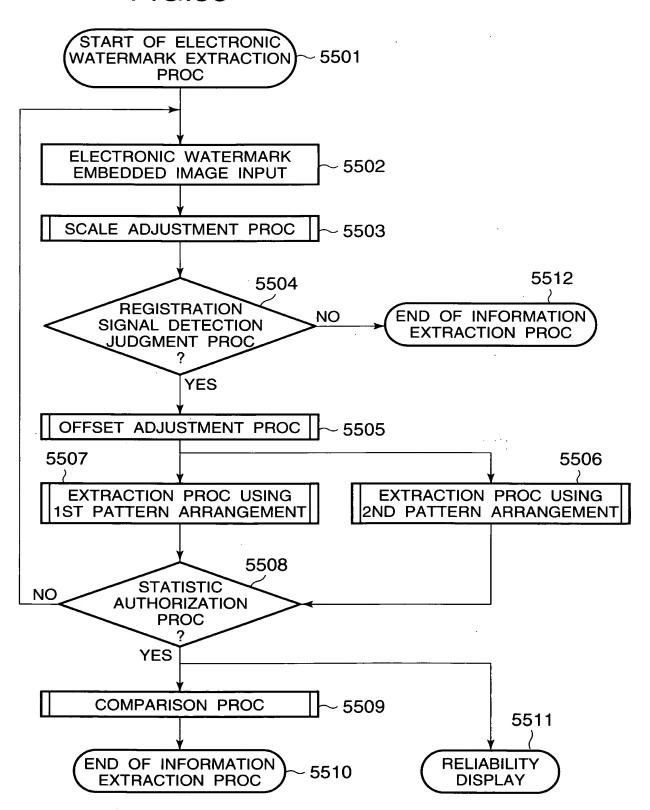


FIG.56

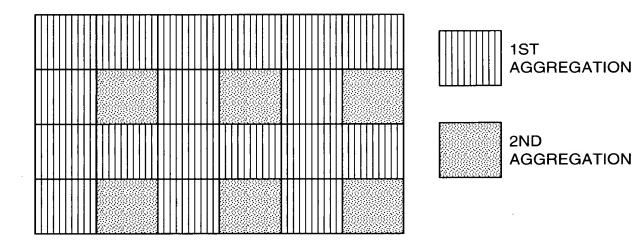
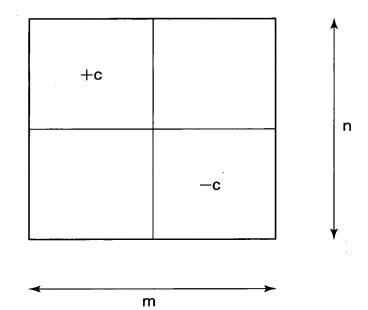
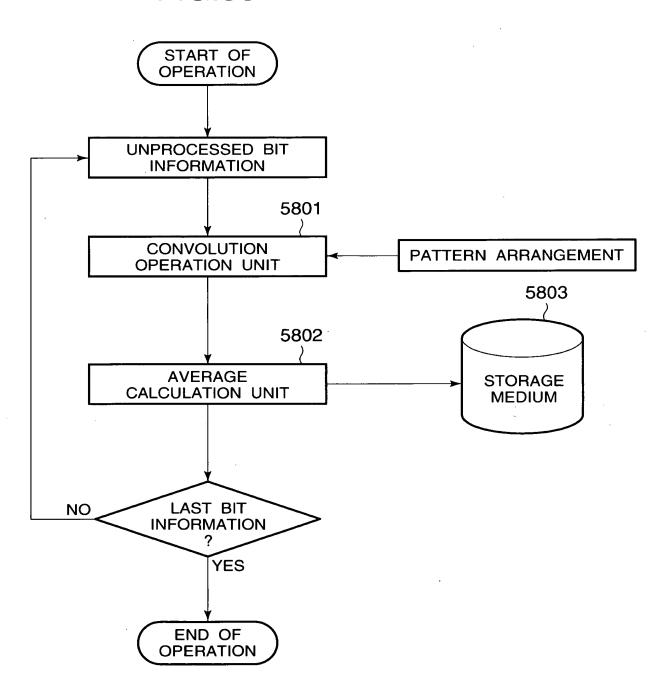


FIG.57



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FIG.58





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